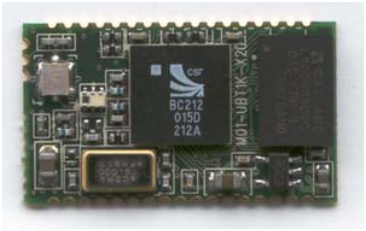
# Bluetooth™ module



The **BTM1000H** is a miniature device for use in embedded systems that provides short-range wireless connectivity between Bluetooth-enabled devices for applications such as file transfer, ad-hoc networking, device synchronization, peripheral connectivity and a bridge to the Internet.
The **BTM1000H** uses radio frequency, hence, voice and data are transmitted almost immediately. Bluetooth™ transmission not only ensures protection from interference, but also secures data transfers. It helps people share and access information that's important to them more easily.
The **BTM1000H** is a Class 1 Bluetooth module that features high power providing a communication range up to 100 meters.
Link your notebook with your handheld, mobile phone, printer and other Bluetooth™ devices within your personal area network (PAN) via a secure short-range wireless radio link. Get rid of all those troublesome cables and automatically share documents, browse the Internet and synchronize calendars, address books and more.

## FEATURES

- Fully compliant with Bluetooth Version 1.1.
- Uses 2.4 GHz ISM frequency band.
- High-speed Wireless Transmissions, up to 723 Kbps Data Throughput.
- Enable wireless connectivity between a notebook computer and other Bluetooth devices.
- High power Bluetooth radio provides a communication range of up to 100 meters.
- Provides a high degree of security for communications between Bluetooth devices.
- The very small Bluetooth module makes designing a Bluetooth-enabled product easily.

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## SPECIFICATIONS

| | |
|---|---|
| **Standards** | Bluetooth Version 1.1 |
| **Chipset** | CSR BlueCore 2 solution |
| **Antenna** | Build in the card |
| **Frequency Range** | 2.4000-2.4835 GHz |
| **Number of Selectable Channels** | 79 channels |
| **RF Technique** | Frequency hopping spread spectrum(FHSS) |
| **Security** | Data encryption up to 128-bits |
| **Topology** | 8 devices,point-to-multipoint |
| **Interface Signals Provided** | ▪ USB Interface signals(full-speed 12Mbps speed of USB spec. 1.1)<br>▪ UART interface signals<br>▪ PCM Codec interface signals |
| **Output Power** | Output power meets Class 1(1mW-100mW) requirements |
| **Sensitivity** | -75dBm |
| **Range** | Devices connect for access and data sharing within ranges up to 320 feet (100 meters) |
| **Power Consumption** | Operating Voltage: 3.3V, 195mA (Max) |
| **Physical Specifications** | ▪ Weight: 2 g<br>▪ Dimension: 25 (L) x 14.5 (W) mm |
| **Environment Specifications** | ▪ Operating Temperature: 0~65℃ ambient temperature<br>▪ Storage Temperature: -20~75℃ ambient temperature<br>▪ Operating humidity: 95% maximum (non-condensing)<br>▪ Storage humidity: 95% maximum (non-condensing) |

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